

# ORDINANCE/RESOLUTION REQUEST

All Fields must be completed

Incomplete request forms will be returned to sender which may cause a delay in processing.

Date of Request: August 30, 2021

Please mark one:  Bill Request or  Resolution Request

## 1. Type of Request:

- Contract/Grant Agreement  Intergovernmental Agreement (IGA)  Rezoning/Text Amendment  
 Dedication/Vacation  Appropriation/Supplemental  DRMC Change  
 Other:

2. **Title:** Approves Burns & McDonnell Engineering Company, Inc., for Contract No. 202054748, HVAC R-22 Refrigerant Replacement Phase 2.

3. **Requesting Agency:** Denver International Airport

## 4. Contact Person:

Contact person with knowledge of proposed ordinance/resolution	Contact person to present item at Mayor-Council and Council
Name: Michael Sheehan	Name: Carolina Flores
Email: Michael.Sheehan@flydenver.com	Email: Carolina.Flores@flydenver.com

## 5. General description or background of proposed request. Attach executive summary if more space needed:

Denver International Airport (DEN) receives auxiliary thermal utilities from direct expansion air conditioning systems. In January 2010, the production of R-22 refrigerant, a Class II controlled substance, was halted. In a multi-year phase out mandated by the Environmental Protection Agency, the sale and use of virgin R-22 has been banned. In 2020 a ban of all R-22 refrigerant went into effect, except for the recovery, recycle and reclamation for use in existing systems. This has escalated the operational costs for the air conditioning system. This project will phase out three hundred (300) R-22 refrigerant units at DEN.

This project will replace unitary equipment using R-22 refrigerant at the Terminal, Concourse B, Concourse C, land side and air side buildings. All direct expansion air conditioning units are to be replaced with a like-for-like basis, subject to market availability, and will be evaluated on a case-by-case basis as part of this contract. Equivalent capacity will be maintained by new units using R-407 or R-410a refrigerants.

By pursuing this project as a Design-Build we intend to gain efficiencies in schedule and budget between design and construction.

6. **City Attorney assigned to this request (if applicable):** Tracy Davis

7. **City Council District:** 11

8. **\*\*For all contracts, fill out and submit accompanying Key Contract Terms worksheet\*\***

## Key Contract Terms

**Type of Contract:** Construction

*To be completed by Mayor's Legislative Team:*

Resolution/Bill Number: RR21 1006

Date Entered: \_\_\_\_\_

**Vendor/Contractor Name:** Burns & McDonnell Engineering Company, Inc.

**Contract control number:** 202054748-00

**Location:** Denver International Airport

**Is this a new contract?**  Yes  No **Is this an Amendment?**  Yes  No **If yes, how many?** \_\_\_\_\_

**Contract Term/Duration (for amended contracts, include existing term dates and amended dates):** Notice to Proceed (NTP) plus 730 days

**Contract Amount (indicate existing amount, amended amount and new contract total):**

<i>Current Contract Amount (A)</i>	<i>Additional Funds (B)</i>	<i>Total Contract Amount (A+B)</i>
N/A	N/A	\$24,417,933.00

<i>Current Contract Term</i>	<i>Added Time</i>	<i>New Ending Date</i>
N/A	N/A	Notice to Proceed (NTP) plus 730 days

**Scope of work:**

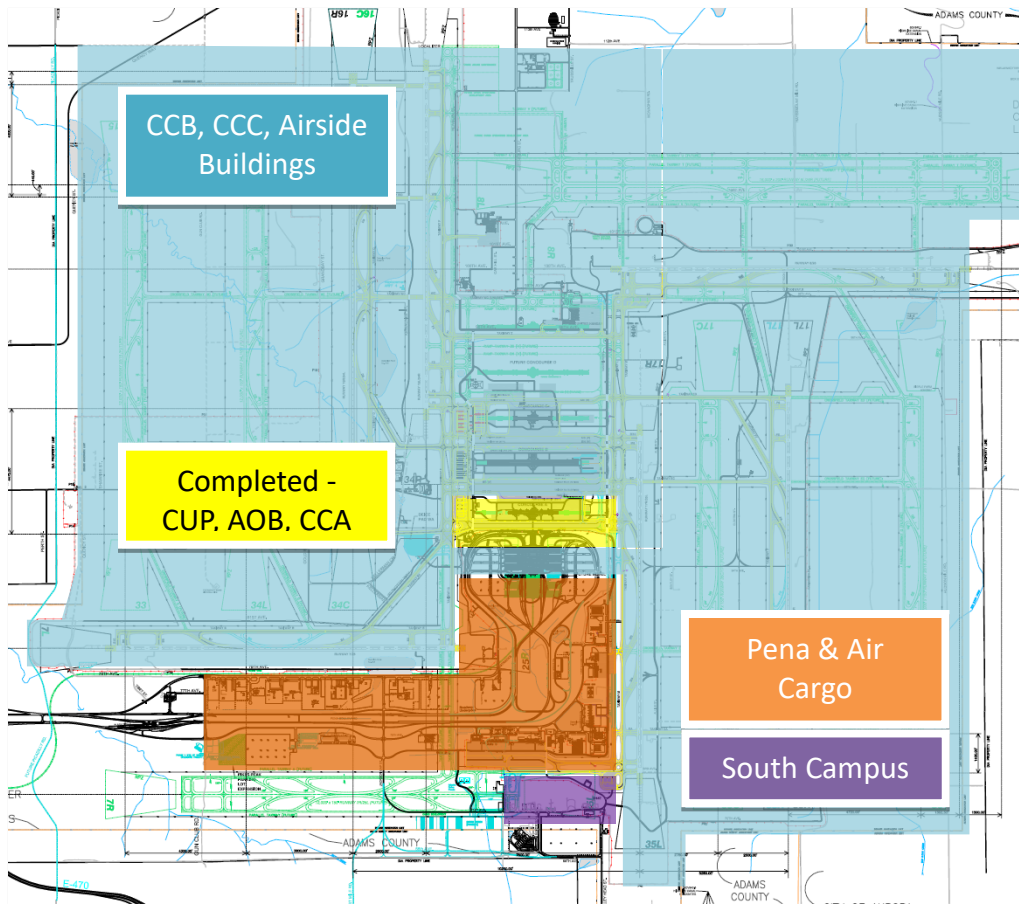
This is a design/build project and pricing shall be based on performing engineering and construction services to demolish and construct the replacement of equipment containing refrigerants phased out by the Environmental Protection Agency. Under previous projects, Equipment using R-22 as a refrigerant were replaced in the Central Utility Plant (CUP), Airport Office Building (AOB) and Concourse A (CCA). This project is for the replacement of units containing R-22 in the Main Terminal (TML), Concourse B (CCB), Concourse C (CCC), all Airside Buildings (i.e., Antenna Farm, De-ice, ARFF, OPS Office, Lighting Vaults, Snow Trailer, etc.), Pena and Air Cargo areas and the South Campus.

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Design services shall include but are not limited to developing contract documents to demolish and replace water cooled computer room air-conditioning units, split system computer room air-conditioning units, split-system fan coil-units, and packaged rooftop units. Refrigerant piping will need to be replaced for the split system units, chilled water piping coil connections to the water-cooled units, and gas piping (where used) for the rooftop units including accessories. The temperature controls along with integration into the Buildings' Energy Management and Controls System (EMCS) for the replacement equipment will need to be evaluated and replaced where old and no longer compatible systems exist, electrical equipment (MCC, panelboards, circuit breakers, wiring, life safety systems, etc.), will need to be replaced as necessary for the upgrades in unit electrical characteristics. Exterior, existing concrete slabs on grade for any replaced units will need to be evaluated for necessary replacement with a structural concrete slab with foundation system. A survey of the exact quantity and types of units will need to be included as part of the project; there are approximately 300 units to be replaced. These documents shall be developed to meet the latest codes and standards at the time of project execution as required by Denver Development Services and DEN Design Standards and to allow permitting and construction of the project. The proposal shall include all management, supervision, engineering, labor, materials, tools, equipment, services, testing, direct and indirect overhead, profit/fee, contingency, and incidentals to complete this scope of work. It will also comprise of any and all temporary construction to facilitate this work which includes but is not limited to temporary equipment or systems.

The Designer is identified in the Contract Documents and is an employee of the Contractor or is retained by the Contractor as an independent consultant under a professional services agreement with the Contractor.

**Was this contractor selected by competitive process?**      Yes, Competitive Request for Proposal      **If not, why not?**

**Has this contractor provided these services to the City before?**     Yes     No

**Source of funds:** CIP

**Is this contract subject to:**     W/MBE     DBE     SBE     XO101     ACDBE     N/A

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**WBE/MBE/DBE commitments (construction, design, Airport concession contracts): 25% MWBE**

**Who are the subcontractors to this contract?**

Reliant Energy Systems, Inc. | Mechanical Construction  
Construction Supply Services | Mechanical Materials  
LEI | Project Controls  
American Industrial & Electrical Supply | Electrical Materials  
North/Western Electric | Electrical Construction  
Latcon | Concrete, Thermal Protection & Finishes  
SynEnergy | MEP Design & Engineering  
SAN Engineering | Structural Design & Engineering  
PK Electrical | Electrical Design & Engineering  
Group 14 | Commissioning

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